INTERNATIONAL SEARCH REPORT

International application No. PCT/JP2004/003778 1994-2004

Int.Cl'	G11B7/09,	7/135,	7/125
According to Inten	national Patent Cla	ssification (I	PC) or to both national classification and

issification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) Int.Cl⁷ G11B7/09, 7/095, 7/135, 7/125

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho Kokai Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Toroku Koho

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

CLASSIFICATION OF SUBJECT MATTER

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
A	JP 9-161282 A (Sharp Corp.), 20 June, 1997 (20.06.97), Full text; Figs. 1 to 24 & EP 0777217 A2 & US 5881035 A1 & KR 0252600 B	1-22		
Further documents are listed in the continuation of Box C. See patent family annex.				

"A"	to be of particular relevance "E" earlier application or patent but published on or after the international filing date		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive		
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other		step when the document is taken alone			
	"O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is		
"P"			combined with one or more other such documents, such combination being obvious to a person skilled in the art		
	the priority date claimed		document member of the same patent family		
Date of the actual completion of the international search		Date of mailing of the international search report			
06 May, 2004 (06.05.04)		25 May, 2004 (25.05.04)			
Name and mailing address of the ISA/		Authorized officer			
Japanese Patent Office					
Facsir	Facsimile No.		Telephone No.		
Form PCT/ISA/210 (second sheet) (January 2004)					